



# Canyon Fuel Company, LLC Soldier/Dugout Canyon Mines

P.O. Box 1029 Wellington, Utah 84501 (435) 637-6360 Fax (435) 637-0108

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Call	it you	have	question	Marie ,	
			Dave		
			Dave		

CONFIDENTIALITY NOTICE: THIS MESSAGE IS INTENDED FOR THE USE OF THE INDIVIDUAL OR ENTITY DESIGNATED ABOVE, IS CONFIDENTIAL AND MAY CONTAIN INFORMATION THAT IS LEGALLY PRIVILEGED OR EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, COPYING OR USE OF OR RELIANCE UPON THE INFORMATION CONTAINED IN AND TRANSMITTED WITH THIS FACSIMILE TRANSMISSION BY OR TO ANYONE OTHER THAN THE RECIPENT DESIGNATED ABOVE BY THE SENDER IS NOT AUTHORIZED AND STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY THE SENDER BY TELEPHONE AND RETURN IT TO THE SENDER BY U.S. MAIL, OR DESTROY IT IF AUTHORIZATION IS GRANTED BY THE SENDER. THANK YOU.



Canyon Fuel Company, LLC Soldier / Dugout Canyon Mines P.O. Box 1029 Wellington, Utah 84542 435/637-6360 Fax: 435/637-0108

June 8, 1999

Coal Regulatory Program Attn.: Daron Haddock Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, Utah 84114

Re:

First Quarter 1999 Water Monitoring Report Dugout Canyon Mine, ACT/007/039 Soldier Canyon Mine, ACT/007/018

Dear Mr. Haddock:

I have enclosed the first quarter 1999 water monitoring report for the Soldier / Dugout Canyon Mines. I have also: enclosed Drawing No. D-458 as an update to our current water monitoring program at the Soldier Canyon Mine (SCM).

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Please be aware that the surface water points G-2, G-7 and G-8, as well as, the groundwater points 4 & 8 have been removed from the SCM routine monitoring schedule. Our approved M&RP allows monitoring of these sites to be discontinued, once there has been no active mining in the vicinity of these sites for one year. The enclosed drawing, depicts the 1998 active mining areas (far western portion of the mine plan area), relative to the location of the aforementioned monitoring sites (far eastern portion of the mine plan area). Furthermore, all active mining operations at SCM were indefinitely suspended in October 1998 and there no plans to resume active mining until the Dugout reserves are depleted.

In 1996 the surface water point G-6 was established on Soldier Creek immediately upstream from the SCM disturbed area. This site was proposed as a replacement for G-1. (G-1 is located more that 2 miles upstream from G-6.) It was determined that monitoring G-6, in conjunction with G-5, would enhance our ability to determine the effects of the mine water discharge on Soldier Creek. Subsequently, G-6 was accepted into the approved M&RP with the agreement that monitoring of G-1 would continue for two years. This two year obligation has now been completed and the routine monitoring of site G-1 shall be discontinued.

Should you have any questions concerning this information, please contact myself (435-636-2872) or Chris Hansen (435-448-2669).

Sincerely,

SOLDIER / DUGOUT CANYON MINES

I G. Spiller

David G. Spillman, P.E. Technical Services Manager

enclosures

Chris Hansen, Skyline DOGM, Price Field Office Central Files

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Canyon Fuel Company, LLC Soldier / Dugout Canyon Mines P.O. Box 1029 Wellington, Utah 84542 435/637-6360 Fax: 435/637-0108

June 21, 1999

Coal Regulatory Program Atin.: Daron Haddock Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, Utah 84114

Re:

Modification to Water Monitoring Plan Soldier Canyon Mine, ACT/007/018

Dear Mr. Haddock:

On June 8, 1999, I submitted our 1st quarter 1999 water monitoring report for the Soldier / Dugout Canyon Mines. This submittal also identified several monitoring points, associated with the Soldier Canyon Mine, which may now be dropped in accordance with our approved M&RP. The map which was enclosed (Drawing No. D-458), correctly identified the points to be dropped as surface water points G-1, G-2, G-8 and G-9, as well as, springs 4 and 8. Unfortunately, the cover letter incorrectly identified G-7 instead of G-9 as a monitoring point being discontinued. Please be aware that surface water point G-7 will remain as a viable point and shall be monitored in accordance to our approved M&RP.

I appreciate Jim Smith for bringing this inconsistency to my attention. Should you have any further questions regarding this matter please contact me at (435)636-2872.

Sincerely,

SOLDIER / DUGOUT CANYON MINES

David G. Spillman, P.E. Technical Services Manager

Chris Hansen, Skyline DOGM, Price Field Office

Central Files

## DUGOUT CANYON ANALYTICAL RESULTS

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Street.

	DUGO	UT CANYO	N MINE WA	TER MO	ONITORING	- 1999					
FIRST QUARTER RESULTS											
SURFACE WATER	Date	Flow (cfs)	Water Temp (deg C)	<u>pH</u>	Conductivity	Dissolved O2					
DC-1(G-11)	03-08-99	0.0538	10.0	7.67	1317	. 7					
DC-2(G-12)	03-08-99	0.0295	7.2	8.16	871	8					
DC-3(G-13)	03-08-99	**inaccessible	NA	NA	NA	NA					
MD-1	03-08-99	0.0338	10.6	7.72	825	NA					
GROUND WATER SC-14(14,S-14)	03-08-99	**inaccessible	na Na	na (etra) i	naturase; u t	PACTURAL T	A (				
S:P-20(20,S-20)	03-08-99	**inaccessible	NA	NA	NA	NA					
S:C-65(65,S-65)	03-08-99	**inaccessible	NA	NA	NA	NA - POPP					
SC-100(100,S-100)	03-08-99	**inaccessible	·NА	NA	NA	NA					
WELLS	DATE	DEPTH				·					
<b>GW-10-2</b> (10-2)	03-08-99	**inaccessible	•								
GW-11-2(11-2)	03-08-99	**inaccessible			<u> </u>						
GW-24-I(24-1)	03-08-99	**inaccessible									

<sup>• \*</sup>Due to ice and snow accumulations sites were inaccessible for accurate flow measurements.

 <sup>\*\*</sup>Site was inaccessible for monitoring.

NOTE: Identification numbers listed above which are bold represent the nomenclature used in the permits. Identification numbers in the parentheses represent nomenclature used in Mayo's report or other nomenclature used in the past.

ACZ Laboratorics, Inc. 2773 Downhill Drive

Steamboat Springs, CO 80487

(800) 334-5493

Soldier Creek Coal Company

P.O. Box 1029

Wellington, UT 84542

Dave Spillman

Lab Sample ID: L22305-07

Client Sample ID: DC-1

Client Project ID:

ACZ Report ID: RG88406

Date Sampled: 3/8/99 08:00

Date Received: 3/10/99

Date Reported: 3/25/99

Sample Matrix: Surface Water -

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Paramatal	FPA Method	: Result :	Oual 3	Units	MDL	PQL	Date Ann	livst
Calcium, dissolved	M200.7 ICP	68.8		mg/L	0.2	. 1	3/13/99	kr
Iron, dissolved	M200.7 ICP		U	mg/L	0.01	0.05	3/13/99	kr
Iron, total	M200.7 ICP	0.09		mg/L	10.0	0.05	3/17/99	gg
Magnesium, dissolved	M200.7 (CP	7. 17. 17. 17. 17. 17. 18. 18. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	ěŤ.	mg/L	0.2	. <b>, l</b> , , , ,	3/13/99	, kr
Manganese, dissolved	M200.7 ICP	1.47	U	mg/L	0.005	0.03	3/13/99	kr
Manganesc, total	M200.7 ICP	0.009	В	mg/L	0.005	0.03	3/17/99	28
Potassium, dissolved	M200.7 ICP	2.3		mg/L	0.3	1	3/13/99	kr
Sodium, dissolved	M200.7 ICP	27.2		mg/L	0.3	ŧ	3/13/99	kr

Metals Prep

Parameter	EPA Method	Result Qual Units MDL POL	Date Ar	ulyst
Total Hot Plate Digestion	M3010 ICP		3/1 <b>7/99</b>	laa

Wet Chemistry

Parameter	EPA Method	_ Result =	Qual	Units	MOL	PQL	DateA	nalyst
Alkalinity as CaCO3	M310.1							
Bicarbonnte as CaCO3		323		mg/L	2	10	3/11/99	CC
Carbonate as CaCO3			U	mg/L	2	10	3/11/99	cc
Hydroxide as CaCO3			U	mg/L	2	10	3/11/99	cc
Total Alkalinity		323		mg/L	2	10	3/11/99	cc
Cation-Anion Balance	Calculation							
Cation-Anion Balance		-10		%			3/25/99	calc
Sum of Anions		9.7		meq/L	0.1	0.5	3/25/99	calc
Sum of Cations		9.5		meq/L	0 1	0.5	3/25/99	calc
Chloride	M325.2 - Colorimetric (RFA)	10		mg/L	. 1	5	3/12/99	bg
Fluoride	M340.2 - ISE	0.3	В	mg/L	0.1	0.5	3/23/99	¢c
Hardness as CaCO3	SM2340B - Calculation	417		mg/L	1	7	3/25/99	calc
Lab Filtration	•••	-			•		3/10/99	cc
Lab Filtration & Acidification	***						3/11/99	laa
Oil & Grease, Total Recoverable	M413.1 - Gravimetric		IJ	mg/L	2	10	3/12/99	mh
Residue, Filterable (TDS) @180C	M160.1 - Gravimetric	510		m <b>g/</b> L	10	20	3/11/99	cc
Residue, Non-Filterable (TSS) @103-5C	M160.2 - Gravimetric	6	В	ing/L	5	20	3/11/99	cc
Sodium Absorption Ratio in Water	USGS - 11738-78	0.58			0.03	0.15	3/25/99	calc
Sulfate	M375.3 - Gravimetric	140		mg/L	10	20	3/12/99	cc/cd
TDS (calculated)	Calculation	502		mg/L	10	50	3/25/99	calc
TDS (ratio - measured/calculated)	Calculation	1.02					3/25/99	calc

U = Analyte was analyzed for but not detected at the indicated MDL

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

REPIN101.03.95.01

Page 1 of 1

Vice President of Operations: Ralph Poulsen

### Analytical Results

ACZ Laboratorics, Inc. 2773 Downhill Drive

Steamboat Springs, CO 80487

(800) 334-5493

Soldier Creek Coal Company

P.O. Box 1029

Wellington, UT 84542

Dave Spillman

Lab Sample ID: L22305-05

Client Sample ID: DC-2

Client Project ID:

RG88404 ACZ Report ID:

3/8/99 08:48 Date Sampled:

3/10/99 Date Received:

Date Reported: 3/25/99

Sample Matrix: Surface Water

Matala Amalusia

Metals Analysis	TO A TO A STATE OF THE PARTY OF	Result	Oust	a linits of	GMD)	POL	Date A	nalyst
Calcium, dissolved	M200.7 ICP	65.4		mg/L	0.2	1	3/13/99	kr
Iron, dissolved	M200.7 ICP		U	mg/L	0.01	0.05	3/13/99	kr
fron, total	M200.7 ICP	0.02	В	mg/L	0.01	0.05	3/1 <b>7/</b> 99	gg
Magnesium, dissolved	M200.7 ICP	57.1		mg/L 、	0 2	1	3/13/99	kr
Manganese, dissolved	M200.7 ICP	The state of the s	u .	mg/L	0.005	0.03	3/13/99	kr
Manganese, total	M200.7 ICP	0.008	В	mg/L	0.005	0.03	3/17/99	gg
Potassium, dissolved	M200.7 ICP	2.1		mg/L	03	1	. 3/13/99	kr
Sodium, dissolved	M200.7 ICP	26.0		mg/L	0.3	1	3/13/99	kr

Metals Prep

Paraméter .... EPA Method

Total Hot Plate Digestion

M3010 ICP

3/17/99	laa

Wet Chemistry

Parameter	EPA Method	Result	Qual	Lois		N. LES	Date A	BIVS
Alkalinity as CaCO3	M310.1							
Bicarbonate as CaCO3		320		wē√	<u> </u>	10	3/11/99	cc
Carbonale as CaCO3			U	mg/L	2	10	3/11/99	CC
Hydroxide as CaCO3			. U	mg/L	2	10	3/11/99	cc
Total Alkalinity		320		m <b>g/L</b>	2	10	3/11/99	cc
Cation-Anion Balance	Calculation							
Cation-Anion Balance		-3.7		%			3/25/99	calc
Sum of Anions		9.8		nieq/L	C1	0.5	3/25/99	calc
Sum of Cations	•	9.1		mcq/L	2.1	0.5	3/25/99	caic
Chloride	M325.2 - Colorimetric (RFA)	9		m <b>ē</b> ∕l.	1.	5	3/12/99	bg
Fluoride >	M340.2 - ISE	0.3	В	mg/L	2.1	0.5	3/16/99	¢c
(Hardness as CaCO3)	SM2340B - Calculation	398		.mg/L	i . Î	, 7	3/25/99	calc
Lab Filtration	***						3/10/99	cc
Lab Filtration & Acidification	***						3/11/99	laa
Oil & Grease, Total Recoverable	M413.1 - Gravimetric		·U	mg/L	2	10	3/12/99	mh
Residue, Filterable (TDS) @180C	M160.1 - Gravimetric	530		mg∕L	10	20	3/10/99	<b>c</b> c
Residue, Non-Filterable (TSS) @103-5C	M160.2 - Gravimetric	6	В	mg/L	Ś	20	3/10/99	cd
Sodium Absorption Ratio in Water	USGS - 11738-78	0.57		_	o 03	0.15	3/25/99	calc
Sulfate	M375.3 - Gravimetric	150		mg/L	10	20	3/12/99	cc/cd
TDS (calculated)	Calculation	502		mg/L	(0)	50	3/25/99	calc
TDS (cared - measured/calculated)	Calculation	1.06		5			3/25/99	calc

U = Analyte was analyzed for but not detected at the indicated MDL

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

REPIN101.03.95.01

Page 1 of 1

Vice President of Operations: Ralph Poulsen

### Analytical Results

ACZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487

(800) 334-5493

Soldier Creek Coal Company P.O. Box 1029 Wellington, UT 84542 Dave Spillman

Lab Sample ID: L22305-06

Client Sample ID: MD-1

Client Project ID:

ACZ Report ID: RG88405

Date Sampled: 3/8/99 08:55 Date Received: 3/10/99 Date Reported: 3/25/99

Sample Matrix: Surface Water

vietais Analysis				75 - 75 TOWN	45 -4 M.		TITO DE	DAY	Date	用料
Parameter		EPA Method		Result	<b>Quality</b>	THIE SE	JIII 23		TOTAL STATE	777
Calcium, dissolved		M200.7 ICP		67.0		mg/L	0.2	ı	3/13/99	kr
Iron, disselved		M200.7 ICP		0.01	В	mg/L	10.0	0.05	3/13/99	kr
•		M200.7 ICP		0.06		mg/L	10.0	0.05	3/17/99	gg
•	:	M200.7 ICP	mark and the second of the	55.3		mg/L	0.2	$\mathcal{A}_{333}$	3/13/99	kr
	1			0.010	В	mg/L	0 005	0.03	3/13/99	kr
<b>u</b>				0.018	В	mg/L	0.005	0.03	3/17/99	gg
•					_	mø/L	0.3	1	3/13/99	kr
						•		1	3/13/99	kr
Sodium, dissolved		M200.7 ICP		24.1		mg/C				
	Parameter 2-	Paramete Calcium, dissolved Iron, dissolved Iron, total Magnesium, dissolved Manganese, dissolved Manganese, total Potassium, dissolved	Paramete EPA Method Calcium, dissolved M200.7 ICP Iron, dissolved M200.7 ICP Iron, total M200.7 ICP Magnesium, dissolved M200.7 ICP Manganese, dissolved M200.7 ICP Manganese, total M200.7 ICP Potassium, dissolved M200.7 ICP	Paramete EPA Method Calcium, dissolved M200.7 ICP Iron, dissolved M200.7 ICP Iron, total M200.7 ICP Magnesium, dissolved M200.7 ICP Manganese, dissolved M200.7 ICP Manganese, total M200.7 ICP Potassium, dissolved M200.7 ICP Potassium, dissolved M200.7 ICP	Paramete         EPA Method         Result           Calcium, dissolved         M200.7 ICP         67.0           Iron, dissolved         M200.7 ICP         0.01           Iron, total         M200.7 ICP         0.06           Magnesium, dissolved         M200.7 ICP         55.3           Manganese, dissolved         M200.7 ICP         0.010           Manganese, total         M200.7 ICP         0.018           Potassium, dissolved         M200.7 ICP         4.2	Paramete         EPA Method         Result         Qual           Calcium, dissolved         M200.7 ICP         67.0           Iron, dissolved         M200.7 ICP         0.01         B           Iron, total         M200.7 ICP         0.06         Magnesium, dissolved           Manganese, dissolved         M200.7 ICP         55.3         0.010         B           Manganese, total         M200.7 ICP         0.018         B           Potassium, dissolved         M200.7 ICP         4.2	Paramete         EPA Method         Result         Qual         Units           Calcium, dissolved         M200.7 ICP         67.0         mg/L           Iron, dissolved         M200.7 ICP         0.01         B         mg/L           Iron, total         M200.7 ICP         0.06         mg/L           Magnesium, dissolved         M200.7 ICP         55.3         mg/L           Manganese, dissolved         M200.7 ICP         0.010         B         mg/L           Manganese, total         M200.7 ICP         0.018         B         mg/L           Potassium, dissolved         M200.7 ICP         4.2         mg/L	Parameter         EPA Method         Result         Qual         Units         MDI           Calcium, dissolved         M200.7 ICP         67.0         mg/L         0.2           Iron, dissolved         M200.7 ICP         0.01         B         mg/L         0.01           Iron, total         M200.7 ICP         0.06         mg/L         0.01           Magnesium, dissolved         M200.7 ICP         55.3         mg/L         0.2           Manganese, dissolved         M200.7 ICP         0.010         B         mg/L         0.005           Manganese, total         M200.7 ICP         0.018         B         mg/L         0.005           Potassium, dissolved         M200.7 ICP         4.2         mg/L         0.3	Parametic         EPA-Method         Result         Qual         Units         MD         PQ           Calcium, dissolved         M200.7 ICP         67.0         mg/L         0.2         1           Iron, dissolved         M200.7 ICP         0.01         B         mg/L         0.01         0.05           Iron, total         M200.7 ICP         0.06         mg/L         0.01         0.05           Magnesium, dissolved         M200.7 ICP         55.3         mg/L         0.02         1           Manganese, dissolved         M200.7 ICP         0.010         B         mg/L         0.005         0.03           Manganese, total         M200.7 ICP         0.018         B         mg/L         0.005         0.03           Potassium, dissolved         M200.7 ICP         4.2         mg/L         0.3         1	Paramete         EPA Method         Result         Qual         Units         MDL         PQL         Date           Calcium, dissolved         M200.7 ICP         67.0         mg/L         0.2         1         3/13/99           Iron, dissolved         M200.7 ICP         0.01         B         mg/L         0.01         0.05         3/13/99           Iron, total         M200.7 ICP         0.06         mg/L         0.01         0.05         3/13/99           Manganesium, dissolved         M200.7 ICP         55.3         mg/L         0.05         0.03         3/13/99           Manganese, dissolved         M200.7 ICP         0.018         B         mg/L         0.005         0.03         3/17/99           Potassium, dissolved         M200.7 ICP         4.2         mg/L         0.3         1         3/13/99

Metals Prep

Total Hot Plate Digestion M30101CP

Wet Chemistry

Wei Chemistry				A 10 10 10 10 10 10 10 10 10 10 10 10 10	200	A	THE PERSON NAMED IN	
Parameter	EPA Method	Result-	Qual	Units %		arut -	Date A	DIVEL .
Alkalinity as CaCO3	M310.1				_		3/11/99	сe
Bicarbonate as CaCO3		335		mg/L	oralo <u>Z</u> oralo <u>Z</u> a a k	10		cc
Carbonale as CaCO3			U,	mg/L	95	10	3/11/99	cc
Hydroxide as CaCO3			U	mg/L	2	10	3/11/99	
Total Alkalinity		335		mg/L	2	10	3/11/99	cc
Cation-Anion Balance	Calculation				•			
Cation-Anion Balance		0.6		%			3/25/99	calc
Sum of Anions		8.9		meq/L	0.1	0.5	3/25/99	calc
Sum of Cations		9.0		mcq/L	0.1	0.5	3/25/99	calc
Chloride	M325.2 - Colorimetric (RFA)	11		nig/L	1	5	3/12/99	ьg
Fluoride	M340.2 - ISE	0.3	В	ดา <b>ย</b> /ไ.	4.9.	0.5	3/23/99	cc
Hardness as CaCO3	SM2340B - Calculation	395		mg/L	. 1	7	3/25/99	calc
Lab Filtration	***				•		3/10/99	СС
Lab Filtration & Acidification	###			25			3/11/99	taa
Oil & Grease, Total Recoverable	M413.1 - Gravimetric		U	mg/L	2	- 10	3/12/99	mh
Residue, Filterable (TDS) @180C	M160.1 - Gravimetric	530		nig/L	10	20	3/11/99	cc
Residue, Non-Filterable (TSS) @103-5C	M160.2 - Gravimetric		U	nig/L	5	20	3/1 <b>0/</b> 99	cd
Sodium Absorption Ratio in Water	USGS - 11738-78	0.53			0.03	0.15	3/25/99	calc
Sulfate	M375.3 - Gravimetric	90		mg/L	10	20	3/12/99	cc/cd
TDS (calculated)	Calculation	453		mg/L	ιo	50	3/2 <i>5/</i> 99	calc
TDS (ratio - measured/calculated)	Calculation	1.17		-			3/25/99	calc
I I Z I I I I I I I I I I I I I I I I I	Carcaration							

U = Analyte was analyzed for but not detected at the indicated MDL

B = Analyte concentration detected at a value between MDL and PQL

iPQL = Practical Quantitation Limit

Vice President of Operations: Ralph Poulsen

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Dane 1 of 1